

Re-run - #8



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RAW SEQUENCE LISTING

DATE: 08/09/2004

PATENT APPLICATION: US/09/977,579

TIME: 14:04:08

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Output Set: N:\CRF4\08062004\I977579.raw

1 <110> APPLICANT: Cambridge University Technical Services
 2 <120> TITLE OF INVENTION: A novel family of beta sub-unit proteins from a voltage
 gated sodium
 3 channel
 4 nucleic acids encoding them and therapeutic or diagnostic uses thereof
 5 <130> FILE REFERENCE: 674558-2001
 6 <140> CURRENT APPLICATION NUMBER: US/09/977,579
 7 <141> CURRENT FILING DATE: 2001-10-15
 8 <150> PRIOR APPLICATION NUMBER: PCT/EP00/01783
 9 <151> PRIOR FILING DATE: 2000-02-24
 10 <150> PRIOR APPLICATION NUMBER: 60,129,473
 11 <151> PRIOR FILING DATE: 2000-02-24
 12 <160> NUMBER OF SEQ ID NOS: 47
 13 <170> SOFTWARE: PatentIn version 3.1
 15 <210> SEQ ID NO: 1
 16 <211> LENGTH: 215
 17 <212> TYPE: PRT
 18 <213> ORGANISM: Rat
 19 <400> SEQUENCE: 1

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22	Tyr	Trp	Val	Arg	Val	Cys	Phe	Pro	Val	Cys	Val	Glu	Val	Pro	Ser	Glu
23				20					25					30		
24	Thr	Glu	Ala	Val	Gln	Gly	Asn	Pro	Met	Lys	Leu	Arg	Cys	Ile	Ser	Cys
25			35				40					45				
26	Met	Lys	Arg	Glu	Glu	Val	Glu	Ala	Thr	Thr	Val	Val	Glu	Trp	Phe	Tyr
27		50				55					60					
28	Arg	Pro	Glu	Gly	Gly	Lys	Asp	Phe	Leu	Ile	Tyr	Glu	Tyr	Arg	Asn	Gly
29	65				70					75				80		
30	His	Gln	Glu	Val	Glu	Ser	Pro	Phe	Gln	Gly	Arg	Leu	Gln	Trp	Asn	Gly
31				85					90					95		
32	Ser	Lys	Asp	Leu	Gln	Asp	Val	Ser	Ile	Thr	Val	Leu	Asn	Val	Thr	Leu
33			100					105				110				
34	Asn	Asp	Ser	Gly	Leu	Tyr	Thr	Cys	Asn	Val	Ser	Arg	Glu	Phe	Glu	Phe
35			115				120					125				
36	Glu	Ala	His	Arg	Pro	Phe	Val	Lys	Thr	Thr	Arg	Leu	Ile	Pro	Leu	Arg
37		130				135					140					
38	Val	Thr	Glu	Glu	Ala	Gly	Glu	Asp	Phe	Thr	Ser	Val	Val	Ser	Glu	Ile
39	145				150					155				160		
40	Met	Met	Tyr	Ile	Leu	Leu	Val	Phe	Leu	Thr	Leu	Trp	Leu	Phe	Ile	Glu
41				165					170					175		
42	Met	Ile	Tyr	Cys	Tyr	Arg	Lys	Val	Ser	Lys	Ala	Glu	Glu	Ala	Ala	Gln
43			180					185						190		
44	Glu	Asn	Ala	Ser	Asp	Tyr	Leu	Ala	Ile	Pro	Ser	Glu	Asn	Lys	Glu	Asn



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58      Thr Glu Ala Val Gln Gly Asn Pro Met Lys Leu Arg Cys Ile Ser Cys
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61          50          55          60
62      Arg Pro Glu Gly Gly Lys Asp Phe Leu Ile Tyr Glu Tyr Arg Asn Gly
63          65          70          75          80
64      His Gln Glu Val Glu Ser Pro Phe Gln Gly Arg Leu Gln Trp Asn Gly
65          85          90          95
66      Ser Lys Asp Leu Gln Asp Val Ser Ile Thr Val Leu Asn Val Thr Leu
67          100          105          110
68      Asn Asp Ser Gly Leu Tyr Thr Cys Asn Val Ser Arg Glu Phe Glu Phe
69          115          120          125
70      Glu Ala His Arg Pro Phe Val Lys Thr Thr Arg Leu Ile Pro Leu Arg
71          130          135          140
72      Val Thr Glu Glu Ala Gly Glu Asp Phe Thr Ser Val Val Ser Glu Ile
73          145          150          155          160
74      Met Met Tyr Ile Leu Leu Val Phe Leu Thr Leu Trp Leu Leu Ile Glu
75          165          170          175
76      Met Ile Tyr Cys Tyr Arg Lys Val Ser Lys Ala Glu Glu Ala Ala Gln
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92      gggacacgcc caactgaaga agcctgcccc gccgtagaag cccgagatcc tgagtctcgg      300
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100	gcaatgtgtc cagggagtgc gaattcgagg cacacaggcc ttttgtgaag accacgagac	780
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102	tcattgatga catcctcctg gtcttcctca ccttgtggct gtttattgag atgatctatt	900
103	gctacagaaa ggtctctaag gccgaagagg cagcacagga aaatgcgtct gactaccttg	960
104	ctatcccttc agagaacaag gagaactctg tggtagctgt ggaggaataa tgtgggtgga	1020
105	cttgagggtga tgtacacagg catctgggag ggtgatctga gtgctgaggg actggatatc	1080
106	cccagttcag tgatgccagc aatatcagga agtgccccag gtgtcccaac acatccatct	1140
107	tttctattca tcaaccacca acccaatgtg agattttcac ctgacttccg aactctatca	1200
108	gaactctaca catctttacc ttgcctgaac cgaagagcca acatctatct ctacacggac	1260
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110	ctatgttcca aatgatattg acaagtactg gagagtagta ttacctctgc cctgactgtc	1380
111	tgtgactggg tcattctcca ctgcagcaaa aggatggata taaatcgga gaaagccctg	1440
112	actagtttgt cttaaagcca aagcgtgcca cgtacgtact ttgattcatt gaagtcagtt	1500
113	tttcttgctt ctcagagcgc cagaaagcat gcccctaattg cttgcaggga catcatctgt	1560
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122	ttgtgaatct gaagcatcct ccaggagaga cggcaccgga gggcaatatc tctgtgatga	2100
123	aaaatggttt tagtctgaaa tggacagtca acagagagac aaagatgggc gtgtagcttc	2160
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149      ttcagcaatg tcaatggcat caggagggcg cccaagggc cccatcgctt cctttcatgc      1140
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219 <213> ORGANISM: rat
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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/977,579

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Output Set: N:\CRF4\08062004\I977579.raw

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Seq#:34; Line(s) 448
Seq#:35; Line(s) 458
Seq#:36; Line(s) 468
Seq#:37; Line(s) 478
Seq#:38; Line(s) 488
Seq#:39; Line(s) 498
Seq#:40; Line(s) 508
Seq#:41; Line(s) 518
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VERIFICATION SUMMARY

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